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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/659,464	09/09/2003	Kung-Li Deng	134239	4724		
6147	7590 09/07/2005		EXAM	EXAMINER		
GENERAL ELECTRIC COMPANY GLOBAL RESEARCH PATENT DOCKET RM. BLDG. K1-4A59			VARGOT, M	VARGOT, MATHIEU D		
			ART UNIT	PAPER NUMBER		
NISKAYUN	IA, NY 12309		1732			
			DATE MAILED: 09/07/2005	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

					44				
		Application N	о.	Applicant(s)					
Office Action Summary		10/659,464		DENG ET AL.					
		Examiner		Art Unit					
		Mathieu D. Va	- 1	1732					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)[🖂	Responsive to communication(s) filed on 23 Ju	ıne 2005.							
	This action is FINAL . 2b)⊠ This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)	4)⊠ Claim(s) <u>1-60</u> is/are pending in the application.								
	4a) Of the above claim(s) <u>24-34 and 39-60</u> is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
6)⊠	☑ Claim(s) <u>1-23 and 35-38</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restriction and/or	r election requi	ement.						
Application Papers									
9)□	The specification is objected to by the Examiner	r							
	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
•	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119								
12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐ All b)☐ Some * c)☐ None of:									
	1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
	4.								
Attachment	t(s) e of References Cited (PTO-892)]	DTO 440:					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) [_	Interview Summary (Paper No(s)/Mail Dat		ļ				
3) 🔯 Inforn	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) [Notice of Informal Pa	atent Application (PTO-15	i2)				
raper	r No(s)/Mail Date <u>9/9/2003</u> .	6) L	Other:						

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-23 and 35-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over either of Chandross et al or Suzuki et al in view of Mikami et al. Either primary reference discloses the basic claimed method of forming a waveguide comprising the instant steps lacking essentially the aspect of fixing optical elements relative to the photodefinable copolymer and sending light through at least one of the elements and the photodefinable material. Mikami et al discloses such in making a waveguide and such would have been an obvious modification to the process of either primary reference to facilitate forming the waveguide. Suzuki et al (see column 6) discloses suitable polymers and monomers and it is submitted that the instant materials used are all well known in the art and obvious material selections dependent on exact optical properties—ie, refractive index—desired. It is further submitted that dependent claims 23 and 36-38 set forth well known and obvious features which one of ordinary skill in the art would have readily incorporated into the method. For instance, mixing materials and degassing them prior to forming a copolymer is quite well known. Controlling the passage of the light so that the monomer does not volatize would be necessary so that the monomer can be allowed to diffuse as desired. The exact optical element used to pass the light would certainly have been within the skill level of the art as would the aspect of using a mirror to send the light.

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2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mathieu D. Vargot whose telephone number is 571 272-1211. The examiner can normally be reached on Mon-Fri from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni, can be reached on 571 272-1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. Vargot September 2, 2005 Mathieu D. Vargot Primary Examiner Art Unit 1732

9/2/05